

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P593805

Luminaire Tested: **HCC8W50D010BZ-HM82555950-81WDBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P593805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC8W50D010BZ-HM82555950-81WDBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

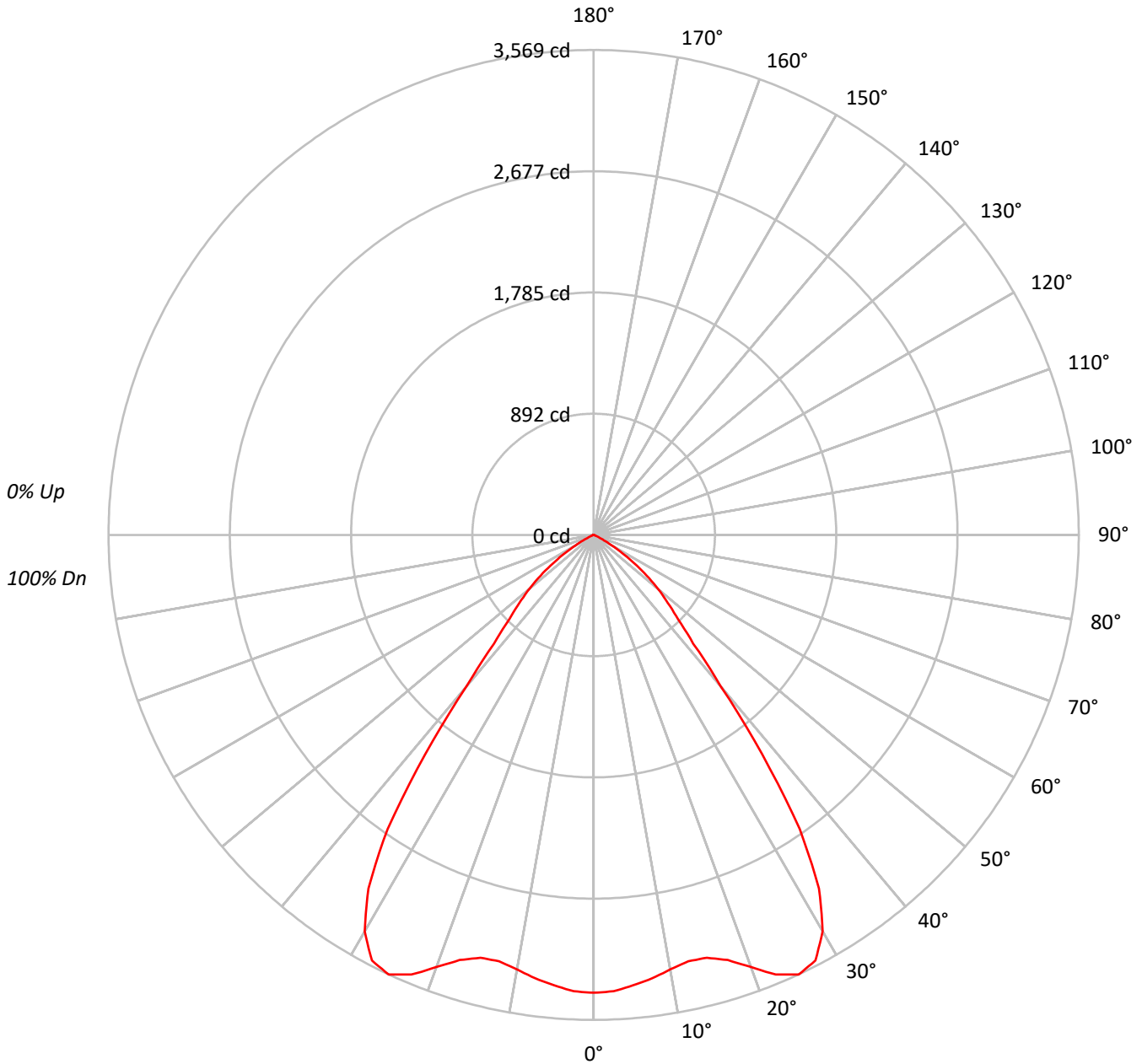
Lumens per Lamp: N/A
Luminaire Lumens: 5544.4 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593805
CATALOG NUMBER: HCC8W50D010BZ-HM82555950-81WDBB

Luminous Intensity Polar Plot





TEST NUMBER: P593805
 CATALOG NUMBER: HCC8W50D010BZ-HM82555950-81WDBB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92																			
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83																			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75																			
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68																			
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62																			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56																			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51																			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47																			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43																			
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	103881
5°	103018
10°	101661
15°	102821
20°	111037
25°	121422
30°	119952
35°	99501
40°	58565
45°	38258
50°	29662
55°	19704
60°	9590
65°	2970
70°	1001
75°	882
80°	657
85°	1309



TEST NUMBER: P593805
 CATALOG NUMBER: HCC8W50D010BZ-HM82555950-81WDBB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.2	5.7
10°-20°	925.3	16.7
20°-30°	1617.8	29.2
30°-40°	1573.7	28.4
40°-50°	715.7	12.9
50°-60°	331.8	6.0
60°-70°	55.6	1.0
70°-80°	6.8	0.1
80°-90°	2.5	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2858.3	51.6
0°-40°	4432.0	79.9
0°-60°	5479.5	98.8
0°-90°	5544.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5544.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3369	
5°	3328	315
15°	3221	925
25°	3569	1618
35°	2643	1574
45°	877	716
55°	366	332
65°	41	56
75°	7	7
85°	4	3
90°	0	



TEST NUMBER: P593805
CATALOG NUMBER: HCC8W50D010BZ-HM82555950-81WDBB

CANDELA DISTRIBUTION (FULL):

	0°
0°	3368.8
2.5°	3361.5
5°	3328.1
7.5°	3291.1
10°	3246.7
12.5°	3213.3
15°	3220.8
17.5°	3280.0
20°	3383.7
22.5°	3502.1
25°	3568.7
27.5°	3531.8
30°	3368.8
32.5°	3083.8
35°	2643.2
37.5°	2036.2
40°	1454.9
42.5°	1084.7
45°	877.3
47.5°	740.4
50°	618.3
52.5°	492.4
55°	366.5
57.5°	251.7
60°	155.5
62.5°	85.1
65°	40.7
67.5°	18.5
70°	11.1
72.5°	7.4
75°	7.4
77.5°	3.7
80°	3.7
82.5°	3.7
85°	3.7
87.5°	0.0
90°	0.0

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)